



ProTech

MARINE EPOXY SYSTEMS

DESCRIPTION:

ProTech Marine Epoxy Systems are convenient, easy to use, 100% solids systems developed solely for building, repairing, or restoring any type of marine vessel. The versatility of the ProTech epoxy systems make them ideal for use in standard wet lay-up, vacuum bagging, or resin infusion operations with a wide range of reinforcements. These systems can also be mixed with a variety of fillers for fairing, filleting, or bonding applications. ProTech marine epoxy systems consist of one base resin and a selection of four separate hardeners to suit your application needs. These systems are all mixed at convenient 3:1 volumetric mix ratios and can be metered through our convenient calibrated push pumps or various types of dispensing equipment, eliminating the need for scales or guesswork associated with other types of epoxy systems. In addition to the high strength and durability of the ProTech epoxy systems, the low viscosity allows for better wet-out resulting in lighter, stronger, void-free parts without experiencing run out on vertical surfaces. The unique chemistry of the ProTech systems provides maximum physical properties and minimizes blush, while making these systems safer for the people who use them. For long term performance and lower maintenance, try one of the ProTech systems today.

ProTech Marine Epoxy Systems:

ProTech Resin - high performance resin specifically formulated for use with any of the following hardeners to produce the highest quality laminating systems:

Fast Hardener - 20 minute pot life at 77°F

Medium Hardener - 35 minute pot life at 77°F

Slow Hardener - 60 minute pot life at 77°F

Cold Weather Hardener - Cures at temperatures down to 40°F

BENEFITS:

- ◆ Above or Below Water Line Applications
- ◆ Convenient volumetric mix ratios
- ◆ Can be used in various applications including laminating, bonding, fairing or sealing
- ◆ Unique chemistry resulting in higher physical properties while minimizing blush
- ◆ Ideal for use with a variety of reinforcements including fiberglass, kevlar, and carbon fiber
- ◆ Excellent wet-out and air release attributes resulting in less resin usage, saving \$\$\$\$
- ◆ 100% Solids – No Solvents
- ◆ UV Stabilized

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WARRANTY: THE PURCHASER AGREES TO ACCEPT THE PRODUCT "AS IS" WITHOUT LIMITING THE GENERALITY OF THE PRECEDING SENTENCE. ADTECH EXPRESSLY DISCLAIMS AND THE PURCHASER EXPRESSLY WAIVES ANY WARRANTIES OF MERCHANTABILITY OR OF THE FITNESS OF THE PRODUCT FOR ANY PARTICULAR PURPOSE. ADTECH DISCLAIMS AND THE PURCHASER WAIVES ANY CLAIM AGAINST ADTECH FOR DIRECT, INDIRECT, CONSEQUENTIAL OR EXEMPLARY DAMAGES AGAINST ADTECH, INCLUDING WITHOUT LIMITATION DAMAGES WHICH MAY BE INCURRED AS A RESULT OF THE PURCHASER'S USE OR MISUSE OF THE PRODUCT OR THE PRODUCT'S FAILURE TO CONFORM TO ANY PARTICULAR SPECIFICATIONS.

HANDLING CHARACTERISTICS @ 25°C/77°F					
Test	Test Method	ProTech Fast	ProTech Medium	ProTech Slow	ProTech Cold Weather
Mix Ratio	By Weight	100R:28H	100R:28H	100R:28H	100R:28H
Mix Ratio	By Volume	3R:1H	3R:1H	3R:1H	3R:1H
Mixed Viscosity	Brookfield	1300 cps	960 cps	770 cps	750 cps
Pot Life	Minutes	18-20 minutes	35 minutes	60 minutes	15 minutes
Mixed Density	lbs/gal	9.3 lbs/gal	9.3 lbs/gal	9.3 lbs/gal	9.3 lbs/gal
Mixed Density	lbs/in ³	0.040 lbs/in ³	0.040 lbs/in ³	0.040 lbs/in ³	0.040 lbs/in ³
Specific Gravity	gm/cc	1.11	1.11	1.11	1.11
Sanding Time	Hours	8-10 hours	12-16 hours	24 hours	5-7 hours
V.O.C.		None	None	None	None
Color		Light Amber	Light Amber	Light Amber	Light Amber
Complete Cure	Days	7 days	7 days	7 days	7 days
Shelf Life	Unopened @ 77°F	1 Year	1 Year	1 Year	1 Year
TYPICAL MATERIAL PROPERTIES					
Cure Schedule: 14 days @ 25°C/77°F					
Tensile Strength	ASTM D-638.94b	6,006 psi	5,670 psi	5,174 psi	6,679 psi
Tensile Elongation	ASTM D-638.94b	1.54%	1.44%	1.37%	1.29%
Tensile Modulus	ASTM D-638.94b	429,700 psi	476,300 psi	524,600 psi	525,200 psi
Flexural Strength	ASTM D-790.92	10,440 psi	10,749 psi	10,884 psi	13,580 psi
Flexural Modulus	ASTM D-790.93	580,000 psi	432,000 psi	418,000 psi	469,700 psi
Compressive Strength	ASTM D-695.91	15,280 psi	16,040 psi	13,910 psi	15,990 psi
Compressive Modulus	ASTM D-695.91	300,200 psi	301,200 psi	280,200 psi	292,400 psi
Impact Strength	ASTM D-256.93a	1.13 ft-lb/in	0.88 ft-lb/in	1.05 ft-lb/in	.74 ft-lb/in
Heat Deflection Temp	ASTM D-648.82	124°F	122°F	120°F	125°F
Moisture Absorption	ASTM D-570.81	Not Available	Not Available	Not Available	Not Available

Physical Testing conducted on cast bar samples

For Ordering and Pricing Information - Please Call 1-800-344-7776
Or visit our website at www.casspolymers.com

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